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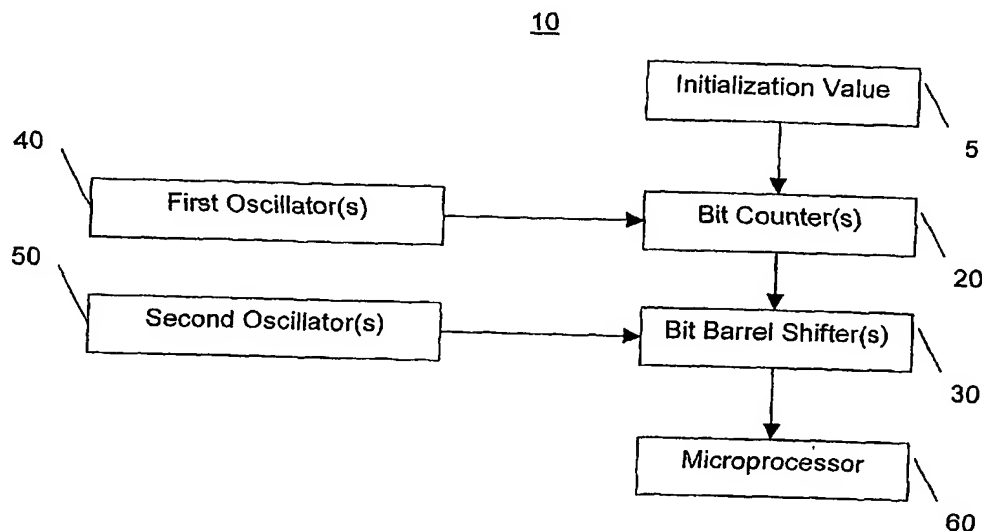
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[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR TRUE RANDOM NUMBER GENERATION



(57) Abstract: There is provided a system and method for providing an entirely digital and/or digitally synthesizable true random number generator for incorporation on integrated circuits using any standard logic synthesis tool or comparable technique. The system and method has at least a microprocessor operating at a first frequency, at least one counter for generating bits, at least one shifter for scrambling bits, at least one first oscillator for cooperating with the at least one counter; and at least one second oscillator for cooperating with the at least one shifter. The system being configured to provide a frequency perturbation based on digital input signals initialized via the microprocessor.

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